"Schmidt, Lynn A" <LSchmidt@ameren.com> on 04/17/2000 08:50:06 AM

To: Dennis Dare@Illinois_Power
cc: "Dahlin, Don A" <DDahlin@ameren.com>, "Whittington, Mike K" <MWhittington@ameren.com>

Subject IP ELDORADO LOAD INCREASE IMPACT REVIEW
:

Dennis,

At your request, we have reviewed the impact of load addition at the 69kV IP Eldorado delivery point in the AmerenCIPS Shawnee Region. Per your specifications, the load addition would be 10 MW @ 0.85 PF supplied by a second transformer at IP Eldorado identical to the existing unit.

A review of normal and contingency conditions shows the key to supplying this additional load is appropriate power factor correction. To maintain acceptable 69kV area supply voltages, additional var compensation in the order of 9600 kvar in the Muddy area is required.

These vars may be added either by IP at Eldorado or by AmerenCIPS at the Muddy Substation. Adding the vars at Eldorado has the advantage from a supply standpoint of placing the vars close to the load and from a cost standpoint would be cheaper for IP. If AmerenCIPS were to install the additional vars and charge IP, IP would be responsible not only for the cost of installation but also the tax markup as well.

From a thermal standpoint, this additional load does not run into any facility limitations.

Please call if there are any questions.

We did not get the okay from Ameren to add the load to the 69 kv line. We only got a study that says that their Muddy sub will support this kind of load. We have not approached Ameren for an interconnect. As a matter of fact we did not even tell them that load they were studying would result in an interconnection. I do not believe they have a means for telling us we can't interconnect there, but it is not a foregone conclusion.

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